



ITW 1633

Attorney Docket No.: 9099-4

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Robert D. Black
Serial No.: 10/005,889
Filed: November 7, 2001
For: METHODS, CIRCUITS AND COMPOSITIONS OF MATTER FOR IN VIVO
DETECTION OF BIOMOLECULE CONCENTRATIONS USING FLUORESCENT
TAGS

Group: 1633
Examiner: G. Counts
Confirmation No.: 7939

May 25, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

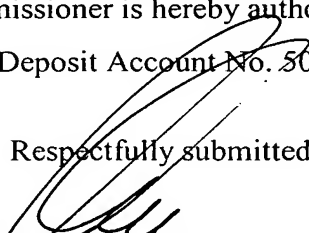
**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)**

Sir:

Attached is a form PTO-1449, together with a copy of each of the identified document(s). It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. § 1.56 and Section 609 of the MPEP.

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. § 1.97(b), within three months of the filing date of the above-referenced application or before the mailing of a first Office Action on the merits, whichever event occurs last. Therefore, no fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220.

Respectfully submitted,



Robert N. Crouse
Registration No. 44,635

Myers Bigel Sibley & Sajovec, P.A.
P. O. Box 37428
Raleigh, North Carolina 27627
Telephone: (919) 854-1400
Facsimile: (919) 854-1401
Customer No. 20792



Certificate of Mailing under 37 CFR § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on May 25, 2004.



Audra Wooten

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	6,650,930	11/18/03	Ding	600	436	
	2.	6,614,025	09/02/03	Thomson et al,	250	370.01	
	3.	6,444,475	09/03/02	Anderson, Jr. et al.	436	161	
	4.	6,363,940	04/02/02	Krag	128	899	
	5.	6,304,766	10/16/01	Colvin, Jr.	600	317	
	6.	6,295,680	10/02/01	Wahl et al.	14	1	
	7.	6,274,159	08/14/01	Marotta et al.	424	426	
	8.	6,272,373	08/07/01	Bouton	600	436	
	9.	6,259,095	07/10/01	Bouton et al.	250	336.1	
	10.	6,242,741	06/05/01	Miller et al.	250	363.02	
	11.	6,240,312	05/29/01	Alfano et al.	600	478	
	12.	6,239,724	05/29/01	Doron et al.	340	870.28	
	13.	6,172,368	01/09/01	Tarr et al,	250	370.07	
	14.	6,099,821	08/08/00	Rich et al.	424	1.61	
	15.	6,093,381	07/25/00	Triozi et al.	424	1.49	
	16.	6,087,666	07/11/00	Huston et al.	250	484.5	
	17.	6,076,009	06/13/00	Raylman et al.	600	436	
	18.	6,070,096	05/30/00	Hayashi	600	477	
	19.	6,047,214	04/04/00	Mueller et al.	607	61	
	20.	6,025,137	02/15/00	Shyjan	435	6	
	21.	6,015,390	01/18/00	Krag	600	549	
	22.	5,987,350	11/16/99	Thurston	600	436	
	23.	5,939,453	08/17/99	Heller et al.	514	452	
	24.	5,932,879	08/03/99	Raylman et al.	250	370.06	
	25.	5,928,150	07/27/99	Call	600	436	
	26.	5,918,110	06/29/99	Abraham-Fuchs et al.	438	48	
	27.	5,916,167	06/29/99	Kramer et al.	600	436	
	28.	5,891,179	04/06/99	Er et al.	607	27	

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

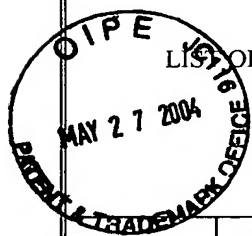
Group: 1641

29.	5,879,375	03/09/99	Larson et al.	607	30	
30.	5,857,463	01/12/99	Thurston et al.	128	659	
31.	5,840,148	11/24/98	Campbell et al.	156	275.5	
32.	5,833,603	11/10/98	Kovacs et al.	600	317	
33.	5,814,089	09/29/98	Stokes et al.	607	32	
34.	5,811,814	09/22/98	Leone et al.	250	368	
35.	5,791,344	08/11/98	Schulman et al.	128	635	
36.	5,759,199	06/02/98	Snell et al.	607	60	
37.	5,744,805	04/28/98	Raylman et al.	250	370.01	
38.	5,744,804	04/28/98	Meijer et al.	250	369	
39.	5,732,704	03/31/98	Thurston et al.	128	659	
40.	5,720,771	02/24/98	Snell	607	60	
41.	5,682,888	11/04/97	Olson et al.	128	653.1	
42.	5,681,611	10/28/97	Yoshikawa et al.	427	163.2	
43.	5,656,815	08/12/97	Justus et al.	250	337	
44.	5,630,413	05/20/97	Thomas et al.	128	633	
45.	5,628,324	05/13/97	Sarbach	128	670	
46.	5,626,862	05/06/97	Brem et al.	424	426	
47.	5,626,630	05/06/97	Markowitz et al.	607	060	
48.	5,620,479	04/15/97	Diederich	607	97	
49.	5,620,475	04/15/97	Magnusson	607	30	
50.	5,620,472	04/15/97	Rahbari	128	903	
51.	5,606,163	02/25/97	Huston et al.	250	337	
52.	5,596,199	01/21/97	McNulty et al.	250	370.07	
53.	5,593,430	01/14/97	Renger	607	9	
54.	5,591,217	01/07/97	Barreras	607	5	
55.	5,572,996	11/12/96	Doiron et al.	128	633	
56.	5,571,148	11/05/96	Loeb et al.	607	40-43	
57.	5,564,434	10/15/96	Halperin et al.	128	675	
58.	5,562,713	10/08/96	Silvian	607	032	
59.	5,557,702	09/17/96	Yoshikawa et al.	385	143	

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket Number: **9099-4**Serial No.
10/005,889
LIST OF DOCUMENTS CITED BY APPLICANT
 (Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641



60.	5,556,421	09/17/96	Prutchi et al.	607	36	
61.	5,549,654	08/27/96	Powell	607	25	
62.	5,549,113	08/27/96	Halleck et al.	128	633	
63.	5,545,187	08/13/96	Bergstrom et al.	607	31	
64.	5,538,005	07/23/96	Harrison et al.	128	698	
65.	5,535,752	07/16/96	Halperin et al.	128	670	
66.	5,517,313	05/14/96	Colvin, Jr.	356	417	
67.	5,507,786	04/16/96	Morgan et al.	607	27	
68.	5,505,828	04/09/96	Wong et al.	205	777.5	
69.	5,497,772	03/12/96	Schulman et al.	128	635	
70.	5,481,262	01/02/96	Urbas et al.	340	870.17	
71.	5,480,415	01/02/96	Cox et al.	607	032	
72.	5,476,488	12/19/95	Morgan et al.	607	030	
73.	5,470,345	11/28/95	Hassler et al.	607	36	
74.	5,466,246	11/14/95	Silvian	607	032	
75.	5,444,254	08/22/95	Thomson	250	370.07	
76.	5,431,171	07/11/95	Harrison et al.	128	698	
77.	5,425,361	06/20/95	Fenzlein et al.	128	635	
78.	5,383,909	01/24/95	Keimel	607	5	
79.	5,377,676	01/03/95	Vari et al.	128	634	
80.	5,372,133	12/13/94	Hogen et al.	128	631	
81.	5,355,880	10/18/94	Thomas et al.	128	633	
82.	5,354,319	10/11/94	Wyborny et al.	607	032	
83.	5,354,314	10/11/94	Hardy et al.	128	653	
84.	5,330,634	07/19/94	Wong et al.	204	409	
85.	5,324,315	06/28/94	Grevious	607	060	
86.	5,318,023	06/07/94	Vari et al.	128	633	
87.	5,314,450	05/24/94	Thompson	607	032	
88.	5,309,085	05/03/94	Sohn	324	71.5	
89.	5,264,843	11/23/93	Silvian	340	870	
90.	5,215,887	06/01/93	Saito	435	014	

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

91.	5,205,294	04/27/93	Flach et al.	128	696	
92.	5,197,466	03/30/93	Marchosky et al.	128	399	
93.	5,193,538	03/16/93	Ekwall	128	419 PT	
94.	5,186,172	02/16/93	Fiddian-Green	128	632	
95.	5,166,073	11/24/92	Lefkowitz et al.	436	57	
96.	5,163,380	11/17/92	Duffy et al.	119	015	
97.	5,159,262	10/27/92	Rumbaugh et al,	324	765	
98.	5,137,022	08/11/92	Henry	128	419.PT	
99.	5,127,404	07/07/92	Wyborny et al.	128	419.P	
100.	5,126,937	06/30/92	Yamaguchi et al.	364	413.11	
101.	5,117,824	06/02/92	Keimel et al.	128	419 PG	
102.	5,117,113	05/26/92	Thomson et al,	250	370.07	
103.	5,109,850	05/05/92	Blanco et al.	128	635	
104.	5,098,547	03/24/92	Bryan et al.	204	401	
105.	5,012,411	04/30/91	Policastro et al.	364	413.06	
106.	5,008,546	04/16/91	Mazziotta et al.	250	366	
107.	4,989,601	02/05/91	Marchosky et al.	128	399	
108.	4,976,266	12/11/90	Huffman et al.	128	659	
109.	4,970,391	11/13/90	Uber, III	250	374	
110.	4,961,422	10/09/90	Marchosky et al.	128	399	
111.	4,958,645	09/25/90	Cadell et al.	128	903	
112.	4,944,299	07/31/90	Silvian	128	419.PG	
113.	4,935,345	06/19/90	Guilbeau et al.	435	014	
114.	4,919,141	04/24/90	Zier et al.	128	635	
115.	4,900,422	02/13/90	Bryan et al.	204	401	
116.	4,847,617	07/11/89	Silvian	340	970.160	
117.	4,846,191	07/11/89	Brockway et al.	128	748	
118.	4,804,847	02/14/89	Uber III	250	370 F	
119.	4,796,641	01/10/89	Mills et al.	128	748	
120.	4,793,825	12/27/88	Benjamin et al.	128	419	
121.	4,769,547	09/06/88	Uber III	250	374	

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket Number: **9099-4**Serial No.
10/005,889
LIST OF DOCUMENTS CITED BY APPLICANT
 (Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

122.	4,750,495	06/14/88	Moore et al.	128	419 PG	
123.	4,719,919	01/19/88	Marchosky et al.	128	401	
124.	4,703,756	11/03/87	Gough et al.	128	635	
125.	4,681,111	07/21/87	Silvian	128	419.PT	
126.	4,678,916	07/07/87	Thomson	250	370	
127.	4,655,880	04/07/87	Liu	204	1 T	
128.	4,651,741	03/24/87	Passafaro	128	633	
129.	4,638,436	01/20/87	Badger et al.	364	414	
130.	4,625,733	12/02/86	Säynäjäkangas	128	687	
131.	4,575,676	03/11/86	Palkuti	324	158 D	
132.	4,571,589	02/18/86	Slocum et al.	128	419 PG	
133.	4,571,292	02/18/86	Liu et al.	204	412	
134.	4,556,063	12/03/85	Thompson et al.	128	419.PT	
135.	4,543,953	10/01/85	Slocum et al.	128	419.PT	
136.	4,541,901	09/17/85	Parker et al.	29\04	1 T	
137.	4,523,279	06/11/85	Sperinde et al.	364	416	
138.	4,519,401	05/28/85	Ko et al.	118	748	
139.	4,494,545	01/22/85	Slocum et al.	128	1.5	
140.	4,484,076	11/20/84	Thomson	250	370.07	
141.	4,431,004	02/14/84	Bessman et al.	128	635	
142.	4,416,283	11/22/83	Slocum	128	419 PG	
143.	4,397,314	08/09/83	Vaguine	128	399	
144.	4,397,313	08/09/83	Vaguine	128	399	
145.	4,361,153	11/30/82	Slocum et al.	128	419.P	
146.	4,326,535	04/27/82	Steffel et al.	128	631	
147.	4,163,380	08/07/79	Masoner	72	342	
148.	3,972,320	08/03/76	Kalman	128	002.1A	
149.	3,638,640	02/01/72	Shaw	128	2R	
150.	3,229,684	01/18/66	Nagumo et al.	600	302	
151.	Re. 32,361	02/24/87	Duggan	128	696	
152.	D424,453	05/09/00	Atterbury et al.	D10	47	

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

153.	D423,377	04/25/00	Atterbury et al.	D10	47
------	----------	----------	------------------	-----	----

FOREIGN PATENT DOCUMENTS

			Date	Country	Class	Subclass	Translation Yes No
	154.	DE 3219558A1	01/12/83	German			X
	155.	DE3332075	03/22/84	German			
	156.	DE4341903A1	14/06/95	German			X
	157.	EP0245073 B1	12/22/93	EPO			X
	158.	EP0386218B1	10/01/96	EPO			X
	159.	EP0420177 A1	03/04/91	EPO			X
	160.	EP0471957A2	02/26/92	EPO			
	161.	EP0537761 A2	04/21/93	EPO			X
	162.	GB2263196A	07/14/93	United Kingdom			
	163.	WO00/18294	06/04/00	PCT	A61B	5/00	
	164.	WO00/29096	25/05/00	PCT			X
	165.	WO00/33065	06/08/00	PCT			
	166.	WO00/40299	07/13/00	PCT			
	167.	WO02/09775	02/07/02	PCT			
	168.	WO02/100485	06/05/02	PCT			
	169.	WO02/39917	11/17/00	PCT			
	170.	WO02/39918	05/23/02	PCT			
	171.	WO95/17809	06/07/95	PCT	95/17809	06/07/95	
	172.	WO97/33513	18/09/97	PCT			
	173.	WO98/02209A2	01/22/98	PCT			X
	174.	WO98/43701	08/10/98	PCT			X
	175.	WO98/58250	12/23/98	PCT			X
	176.	WO99/48419	09/30/99	PCT	A61B	5/00	
	177.	WO99/58065	11/18/99	PCT			
	178.	WO99/63881	12/16/99	PCT			

OTHER NON PATENT LITERATURE DOCUMENTS

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

- | | |
|------|--|
| 179. | Akin et al., <i>RF telemetry powering and control of hermetically sealed integrated sensors and actuators</i> , Proc. Solid-State Sensors & Actuators Workshop, Hilton Head, SC, pp 145-148 (1990). |
| 180. | Akin, T., K. Najafi, R.M. Bradley, <i>An implantable multichannel digital neural recording system for a micromachined sieve electrode</i> , Proc. Int. Conf. on Solid-State Sensors and Actuators, Stockholm, Sweden, Vol. 1, pp. 51-54 (June 1995). |
| 181. | Alecu et al., <i>Dose perturbations due to in vivo dosimetry with diodes</i> Radiotherapy and Oncology, pp. 289-291, Vol. 42, (1997). |
| 182. | Barber et al., <i>Comparison of NaI(Tl), CdTe, and HgI2 surgical probes: physical characterization</i> , Med. Phys., 18(3):373-381 (May-June 1991). |
| 183. | Barthe, Jean, <i>Electronic dosimeters based on solid state detectors</i> , Nuclear. Instruments. and Methods in Physics Research Sec. B vol. 184, pp 158-189 (2001). |
| 184. | Bergh, Van Den, H., <i>On the Evolution of Some Endoscopic Light Delivery Systems for Photodynamic Therapy</i> , Endoscopy, May 1998, pp. 392-407 |
| 185. | Berthold et al., <i>Method for in-situ detection of tritium in water</i> , McDermott Technology Inc./RDTPA 99-03, pp. 1-9 (Sept. 19-22, 1999). |
| 186. | Biotelemetry, Inc., 6520 Contempo Lane, Boca Raton, Florida 33433, Tel: 407-394-0315. Biotelemetry Page, http://speed.nimh.nih.gov/telemetry/classx.html , Feb. 1997. |
| 187. | Blackstock et al., <i>Tumor retention of 5-fluorouracil following irradiation observed using 19F nuclear magnetic resonance spectroscopy</i> , Int J Radiat Oncol Biol Phys, 36(3):641-648 (Oct. 1, 1996). |
| 188. | Bojsen et al., <i>A portable external two-channel radiotelemetrical GM-detector unit, for measurements of radionuclide-tracers in vivo</i> , Int J Appl Radiat Isot, 25(4):161-166 (Apr. 1974). |
| 189. | Bojsen et al., <i>A radiotelemetrical measuring device, implantable on animals, for long term measurements of radionuclide tracers</i> , Int J Appl Radiat Isot, 23(11):505-511 (Nov. 1972). |
| 190. | Braichotte et al., <i>Clinical Pharmacokinetic Studies of Photofrin by Fluorescence Spectroscopy in the Oral Cavity, the Esophagus, and the Bronchi</i> , CANCER, Volume 75, No. 11, June 1, 1995, pp. 2768-2778 |
| 191. | Brochure, <i>Be as smart as you can be with BMDS and Smart AlecTM your partners in intelligence</i> , Bio Medic Data Systems, Inc. (©1999). |
| 192. | Brochure, <i>Come along for the incredible journey in the development of the IPTT-200</i> , Bio Medic Data Systems, Inc. (©2000). |
| 193. | Butson, Martin J. et al, <i>A new radiotherapy surface dose detector: The MOSFET</i> , Medical Physics, American Institute of Physics, Vol. 23 (5) pp 655-658 (May 1996). |
| 194. | Cortese et al., <i>Clinical Application of a New Endoscopic Technique for Detection of In Situ Bronchial Carcinoma</i> , Mayo Clinic Proceedings, Volume 54, October 1979, pp. 635-641 |
| 195. | Cosofret et al., <i>Microfabricated sensor arrays sensitive to pH and K⁺ for ionic distribution measurements in the beating heart</i> , Analytical Chemistry, Vol. 67, pp. 1647-53 (1995). |
| 196. | Daghighian et al., <i>Intraoperative beta probe: a device for detecting tissue labeled with positron or electron emitting isotopes during surgery</i> , Med Phys, 21(1):153-157 (Jan. 1994). |

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: **9099-4**

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

- | | |
|------|---|
| 197. | Data Sciences International, http://www.ispex.ca/companies/instrumentation/DataScInt.html , Profile web pages 1-2 and Instrumental Products 1-7, Copyright Ispex Exchange Inc., 2003, for examination purposes, applicant admits similar devices were available prior to earlier filing date of application. |
| 198. | Deutsch, S., <i>Fifteen-electrode time-multiplex EEG telemetry from ambulatory patients</i> , IEEE Transactions on Biomedical Engineering, Vol. BME-26, pp. 153-159 (1979). |
| 199. | Dewhirst et al., <i>Soft-Tissue Sarcomas: MR Imaging and MR Spectroscopy for Prognosis and Therapy Monitoring</i> , Radiology, 174:847-853 (1990). |
| 200. | Dewhirst, <i>Concepts of oxygen transport at the microcirculatory level</i> , Seminars in Radiation Oncology, Vol. 8, 1998, pp. 143-150. |
| 201. | Dienes et al., <i>Radiation Effects in Solids, Interscience Monographs in Physics and Astronomy</i> , Vol. II, Interscience Publishers, Inc., pp. 1-4, 56-85, 90-122 and 129-177 (©1957). |
| 202. | Dimitrakopoulou et al., <i>Studies with Positron Emission Tomography After Systemic Administration of Fluorine-18-Uracil in Patients with Liver Metastases from Colorectal Carcinoma</i> , J Nucl Med, 34:1075-1081 (July 1993). |
| 203. | Farrar IV Harry et al., <i>Gamma-Ray Dose Mapping in Operational Candu Reactor Containment Areas Using MOS Dosimeters</i> , pp. 441-446, Reactor Dosimetry, ASTM, 1994. |
| 204. | Fernald, <i>A microprocessor-based system for the fast prototyping of implantable instruments for biomedical research applications</i> , Doctoral Dissertation, Elect. & Computer Eng., NC State Univ., (1992). |
| 205. | Fernald, K., T. Cook, T. Miller, III, J. Paulos, <i>A microprocessor-based implantable telemetry systems</i> , Computer, Vol. 24, No. 7, pp. 23-30 (1991). |
| 206. | Fisher, DR, <i>Radiation dosimetry for radioimmunotherapy. An overview of current capabilities and limitations</i> , Cancer, 73(3 Suppl):905-911 (Feb. 1, 1994). |
| 207. | Fryer, T., H. Sndler, W. Freund, E. McCutcheon, E. Carlson, <i>A multichannel implantable telemetry system for flow, pressure, and ECG measurements</i> , Jour. of Applied Physiology, Vol. 39, pp. 318-326 (1973). |
| 208. | Gelezunas et al., <i>Silicon avalanche radiation detectors: the basis for a new ini vivo radiation detection probe</i> , Eur J Nucl Med, 8(10):421-424 (1983). |
| 209. | Gerweck, <i>Tumor pH: Implications for Treatment and Novel Drug Design</i> , 8 Seminars in Radiation Oncology, No. 5, pp. 176-182 (July 1998). |
| 210. | Gilligan et al., <i>Evaluation of a subcutaneous glucose sensor out to 3 months in a dog model</i> , Diabetes Care, Vol. 17, pp. 882-887 (1994). |
| 211. | Griffiths et al., <i>The OxyLite: a fibre-optic oxygen sensor</i> , British J. of Radiology, Vol. 72, pp. 627-630 (1999). |
| 212. | Gschwend, S., J. Knutti, H. Allen, J. Meindl, <i>A general-purpose implantable multichannel telemetry system for physiological research</i> , Biotelemetry Patient Monitoring, Vol. 6, pp. 107-117 (1979). |
| 213. | Hamburger et al, <i>Primary Bioassay of Human Tumor Stem Cells</i> , Science, 197:461-463 (1977). |
| 214. | Hansen, B., K. Aabo, J. Bojsen, <i>An implantable, externally powered radiotelemetric system for long-term ECG and heart-rate monitoring</i> , Biotelemetry Patient Monitoring, Vol. 9., pp. 228-237 (1982). |

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: **9099-4**

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

- | | |
|------|--|
| 215. | Hassan et al., <i>A radiotelemetry pill for the measurement of ionizing radiation using a mercuric iodide detector</i> , Phys med Biol, 23(2):302-308 (Mar 1978). |
| 216. | Heij et al., <i>Intraoperative search for neuroblastoma by MIBG and radioguided surgery with the gamma detector</i> , Med Pediatr Oncol, 28(3):171-174 (Mar. 1997). |
| 217. | Hines, <i>Advanced Biotelemetry Systems for Space Life Sciences: PH Telemetry</i> , Biotelemetry XIII, March 26-31, pp 131-137 (1995). |
| 218. | Hirsch et al., <i>Early Detection of Lung Cancer: Clinical Perspectives of Recent Advances in Biology and Radiology</i> , Clinical Cancer Research, Volume 7, January 2001, pp. 5-22 |
| 219. | Hoffman et al., <i>Intraoperative probes and imaging probes</i> , Eur Jnl Nucl Med, 26(8):913-935 (Aug. 1999). |
| 220. | Holmstrom, N., P. Nilsson, J. Carlsten, S. Bowald, <i>Long-term in vivo experience of an electrochemical sensor using the potential step technique for measurement of mixed venous oxygen pressure</i> , Biosensors & Bioelectronics, 13, pp. 1287-1295 (1998). |
| 221. | Jornet et al., <i>Calibration of semiconductor detectors for dose assessment in total body irradiation</i> , Radiotherapy and Oncology, pp. 247-251, Vol. 38, (1996). |
| 222. | Kastrissios et al., <i>Screening for Sources of Interindividual Pharmacokinetic Variability in Anticancer Drug Therapy: Utility of Population Analysis</i> , Cancer Investigation, 19(1):57-64 (Jan. 30, 2001). |
| 223. | Kern, D.H., <i>Tumor Chemosensitivity and Chemoresistance Assays</i> , Cancer 79(7):1447-1450 (1997). |
| 224. | Khoury et al., <i>An implantable semiconductor beta-radiation detector</i> , Am J Physiol, 232(1):H95-98 (Jan. 1977). |
| 225. | Kinsey et al., <i>Endoscopic System for Simultaneous Visual Examination and Electronic Detection of Fluorescence</i> , Review of Scientific Instruments, Volume 51, No. 10, October 1980, pp. 1403-1406 |
| 226. | Kissel et al., <i>Noninvasive determination of the arterial input function of an anticancer drug from dynamic PET scans using the population approach</i> , Med Phys 26(4):609-615 (April 1999). |
| 227. | Konigsberg Instruments, Inc., http://guide.labanimal.com/guide/companyd.jsp?b=3930 , Lab Animal page 1, Product Categories page 1, Lab Animal Buyers Guide 2003 page 1 and Animal Research Equipment pp 1-12, Nature Publishing Group, 2003, for examination purposes, applicant admits similar devices were available prior to earlier filing date of application. |
| 228. | Koutcher et al., <i>Potentiation of a Three Drug Chemotherapy Regimen by Radiation</i> , Cancer Res, 53:3518-3523 (1993). |
| 229. | Kulapaditharom et al., <i>Performance Characteristics of Fluorescence Endoscope in Detection of Head and Neck Cancers</i> , Annals of Ontology, Rhinology & Laryngol, Volume 110 (1), January 2001, pp. 45-52 |
| 230. | Lambrechts, M., Sansen, W., <i>Biosensors: Microelectrochemical Device</i> , NY, NY: IOP Publishing Ltd., pp. 206-208 (1992). |
| 231. | Loncol et al., <i>Entrance and exit dose measurements with semiconductors and thermoluminescent dosimeters: a comparison of methods and in vivo results</i> , Radiotherapy and Oncology, pp. 179-187, Vol. 41, (1996). |
| 232. | Lowe, S., et al., <i>p53 status and the efficacy of cancer therapy in vivo</i> , Sci., Vol. 266, pp. 807-810 (1994).. |

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

- | | |
|------|---|
| 233. | Ma et al., <i>The photosensitizing effect of the photoproduct of protoporphyrin IX</i> , J. Photochem Photobiol B, July 2001, Vol. 60 (2-3), pp. 108-113 |
| 234. | Mackay, <i>Bio-Medical Telemetry, Sensing and Transmitting Biological Information from Animals and Man</i> , Second edition. New York, NY: IEEE Press (1993). |
| 235. | Marzouk et al., <i>Electrodeposited Iridium Oxide pH Electrode for Measurement of Extracellular Myocardial Acidosis during Acute Ischemia</i> , Anal. Chem., Vol. 70, pp. 5054-5061 (1998). |
| 236. | Mathur, V.K., <i>Ion storage dosimetry</i> , Nuclear Instruments and Methods in Physics Research B, Vol. 184 pp 190-206 (2001). |
| 237. | Mayinger et al., <i>Endoscopic Fluorescence Spectroscopy in the Upper GI Tract for the Detection of GI Cancer: Initial Experience</i> , The American Journal of Gastroenterology, Volume 96, No. 9, September 2001, pp. 2616-2621 |
| 238. | Mayinger et al., <i>Light-induced Autofluorescence Spectroscopy for the Endoscopic Detection of Esophageal Cancer</i> , Gastrointestinal Endoscopy, Volume 54, No. 2, August 2001, pp. 195-201 |
| 239. | Miller et al., <i>Clinical Molecular Imaging</i> , J Amer Coll Radiol 2004, 1, pp. 4-23 |
| 240. | Mittal et al., <i>Evaluation of an Ingestible Telemetric Temperature Sensor for Deep Hyperthermia Applications</i> , Int. J. Radiation Oncology Biol. Phys., Vol. 21, pp. 1353-1361 (1991). |
| 241. | Moreno, D.J. et al, <i>A Simple Ionizing Radiation Spectrometer/Dosimeter based on Radiation Sensing Field Effect Transistors (RadFETs)</i> TRANSDUCERS '97 International Conference on Solid-State Sensors and Actuators Chicago, pp 1283-1286 (June 16-19, 1997). |
| 242. | Mueller, J. S., H. T. Nagle, <i>Feasibility of inductive powering of miniature low-power biotelemetry for use with microfabricated biomedical sensors</i> , Proc. Biotelemetry XIII, Williamsburg, VA, Mar., pp. 372-377 (1995). |
| 243. | Myeck et al., <i>Colonic polyp differentiation using time-resolved autofluorescence spectroscopy</i> , Gastrointest. Endosc., October 1998, No. 48 (4), pp. 390-394 |
| 244. | National Aeronautics and Space Administration, <i>Extravehicular Activity Radiation Monitoring (EVARM)</i> , Fact Sheet FS 2001-11-191-MSFC, abstract review, 10/01. |
| 245. | Olthuis, W., Bergveld, P., <i>Simplified design of the coulometric sensor-actuator system by the application of a time-dependent actuator current</i> , Sensors and Actuators B, Vol. 7, pp. 479-483 (1992). |
| 246. | Oshima et al, <i>Development of Micro-Telemetry Multi-Sensor Capsule System with newly developed LSI for the clinical applications</i> , Transducers '87, The 4 th International Conference on Solid-State Sensors and Actuators, pp 163-166 (1987). |
| 247. | Pauley, Donald J., R. Martin, <i>A microminiature hybrid multichannel implantable biotelemetry system</i> , Biotelemetry Patient Monitoring, Vol. 8, pp. 163-172 (1981). |
| 248. | PCT International Search Report, International Application No. PCT/US01/47373 dated August 6, 2002 |
| 249. | PCT International Search Report, International Application No. PCT/US02/12855 dated December 16, 2002 |
| 250. | PCT International Search Report, International Application No. PCT/US02/38111 |
| 251. | Pendower, J., <i>Spontaneous Disappearance of Gall-stones</i> , Medical Memoranda, British Medical Journal, pp. 492, 1964. |

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

Group: 1641

- | | |
|------|---|
| 252. | Piwnica-Worms et al., <i>Functional Imaging of Multidrug-resistant P-Glycoprotein with an Organotechnetium Complex</i> , Cancer Res, 53:977-984 (1993). |
| 253. | Presant et al., <i>Enhancement of Fluorouracil Uptake in Human Colorectal and Gastric Cancers by Interferon or by High-Dose Methotrexate: An In Vivo Human Study Using Noninvasive ¹⁹F-Magnetic Resonance Spectroscopy</i> , J Clin Oncol, 18:255-261 (2000) Jan. 4, 1999. |
| 254. | Presant et al., <i>Human tumor fluorouracil trapping: clinical correlations of in vivo ¹⁹F nuclear magnetic resonance spectroscopy pharmacokinetics</i> , J Clin Oncol, 8(11):1868-1873 (Nov. 1990). |
| 255. | Puers, B., P. Wouters, M. DeCooman, <i>A low power multi-channel sensor interface for use in digital telemetry</i> , Sensors and Actuators A, Vols. 37-38, pp.260-267 (1993). |
| 256. | Ranii, D., N&O Article, <i>Company's device aims to monitor disease from inside.</i> , Mar. 30, 2000 |
| 257. | Ranii, D., N&O Article, <i>Sicel seeks go-ahead for clinical trials.</i> April 17, 2002. |
| 258. | Raylman et al., <i>Evaluation of ion-implanted-silicon detectors for use in intraoperative positron-sensitive probes</i> , Med Phys, 23(11):1889-1895 (Nov. 1996). |
| 259. | Reece M.H. et al., <i>Semiconductor Mosfet Dosimetry</i> , Health Physics Society annual Meeting, pp. 1-14, 1988. |
| 260. | Rollins et al., <i>Potential new endoscopic techniques for the earlier diagnosis of pre-malignancy</i> , Best Pract. Res. Clin. Gastroenterol, April 2001, Vol. 15 (2), pp. 227-247 |
| 261. | Schantz et al, <i>In vivo native cellular fluorescence and histological characteristics of head and neck cancer</i> , Clin. Cancer Res., May 1998, Vol. 4 (5), pp. 1177-1182. |
| 262. | Shortt, Dr. Ken et al., <i>A New Direct Reading Extremity Dosimeter – How the ED-1 SENSOR works</i> , Health Physics Society Annual Meeting, July 1994. |
| 263. | Small Business Innovation Research Program Phase One Grant Application entitled <i>An Implantable Multi-channel System for Monitoring Tumors</i> , submitted on or about December 1996 to U.S. Public Health Service. |
| 264. | Small Business Innovation Research Program Phase One Grant Application entitled <i>An Implantable Multi-channel System for Monitoring Tumors</i> , resubmitted with revisions on or about August 1997 to the National Institute of Health. |
| 265. | Small Business Innovation Research Program Phase One Grant Application entitled <i>An Implantable Multi-channel System for Monitoring Tumors</i> , resubmitted to the U.S. funding authority on or about April 1998. |
| 266. | Soubra, M. et al., <i>Evaluation of a dual bias dual metal oxide-silicon semiconductor field effect transistor detector as radiation dosimeter</i> , American Assoc. Phys. Med., Vol. 21, No. 4, pp. 567-572, April 1994. |
| 267. | Stepp et al., <i>Fluorescence endoscopy of gastrointestinal diseases: basic principles, techniques, and clinical experience</i> , Endoscopy, May 1998, Vol. 30 (4), pp. 379-386 |
| 268. | Stevens et al., <i>5-Fluorouracil metabolism monitored in vivo by ¹⁹F NMR</i> , Br J Cancer, 50:113-117 (1984). |
| 269. | Sweeney et al., <i>Visualizing the kinetics of tumor-cell clearance in living animals</i> , PNAS, Vol. 96, No. 21, pp. 12044-12049, October 12, 1999 |

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number: 9099-4

Serial No.
10/005,889

LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Applicants: Robert D. Black et al.

Filing Date: November 7, 2001

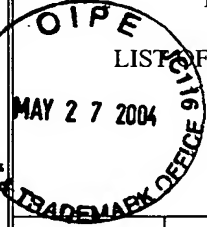
Group: 1641

- | | |
|------|--|
| 270. | Tarr, N.G. et al., <i>A Floating Gate MOSFET Dosimeter Requiring No External Bias Supply</i> , Redecs 97. Fourth European Conference on Radiation and Its Effects on Components and Systems (Cat. No. 97 TH 8294), pp 277-281 (1998). |
| 271. | Taylor et al., <i>The Forces in the Distal Femur and the Knee During Walking and Other Activities Measured by Telemetry</i> , J. of Anthroplasty, Vol. 13, No. 4, pp. 428-437 (1998). |
| 272. | Thomson, I. et al., <i>Radiation Dosimetry with MOS Sensors</i> , Radiation Protection Dosimetry, Vol. 6, No. 1-4, Nuclear Technology Publishing, pp. 121-124, 1984. |
| 273. | UCL Christian de Duve Institute of Cellular Pathology, Ludwig Institute for Cancer Research, URL www.lcp.ucl.ac.be/report95/licr95.html (1995). |
| 274. | Von Hoff et al., <i>Selection of Cancer Chemotherapy for a Patient by an In Vitro Assay Versus a Clinician</i> , JNCI 82:110-116 (1990) October 25, 1989. |
| 275. | Watanabe et al., <i>A Preliminary Report on Continuous Recording of Salivary pH Using Telemetry in an Edentulous Patient</i> , Int'l J. Prosthodontics, Vol. 12, No. 4, pp. 313-317 (1999). |
| 276. | Wayne, E. et al., <i>Treatment of Thyroid Disorders</i> , To-day's Drugs, British Medical Journal, pp. 493-496, August 22, 1964. |
| 277. | Webster, Editor, <i>Design of Cardiac Pacemakers</i> , New York, NY: IEEE Press, pp. 155-157 (1995). |
| 278. | Williams et al., <i>Multipurpose chip for physiological measurements</i> , IEEE International Symposium on Circuits and Systems, Vol. 4, pp. 255-258, Proc. (1994). |
| 279. | Wolf et al., <i>Potential of microsensor-based feedback bioactuators for biophysical cancer treatment</i> , Biosensors & Bioelectronics, Vol. 12, pp. 301-309 (1997). |
| 280. | Wolf et al., <i>¹⁹F-MRS studies of fluorinated drugs in humans</i> , Adv Drug Deliv Rev, 41(1):55-74 (Mar. 15, 2000). |
| 281. | Wolf et al., <i>Non-invasive ¹⁹F-NMRS of 5-fluorouracil in pharmacokinetics and pharmacodynamic studies</i> , NMR Biomed 11(7):380-387 (Nov. 1998). |
| 282. | Wolf et al., <i>Tumor trapping of 5-fluorouracil: In vivo ¹⁹F NMR spectroscopic pharmacokinetics in tumor-bearing humans and rabbits</i> , Proc Natl Acad Sci USA, 87:492-496 (Jan. 1990). |
| 283. | Woelfenden et al., <i>Radiation detector probes for tumor localization using tumor-seeking radioactive tracers</i> , AJR Am J Roentgenol, 153(1):35-39 (Jul. 1989). |
| 284. | Wouters, P., M. De Cooman, R. Puers, <i>A multi-purpose CMOS sensor interface for low-power applications</i> , IEEE Journal of Solid-State Circuits, Vol. 29, No. 8, pp. 952-956 (Aug. 1994). |
| 285. | Yang et al., <i>Visualizing gene expression by whole-body fluorescence imaging</i> , PNAS, Vol. 97, No. 22, pp. 12278-12282, October 24, 2000 |
| 286. | Yarnell et al., <i>Drug Assays on Organ Cultures of Biopsies from Human Tumours</i> , Br Med J 2:490-491 (1964). |
| 287. | Young, R. C., V. T. DeVita, <i>Cell cycle characteristics of human solid tumors in vivo</i> , Cell Tissue Kinetics, Vol. 3, pp. 285-290 (1970). |
| 288. | Zanzonico et al., <i>The intraoperative gamma probe: basic principles and choices available</i> , Semin Nucl Med 30 (1):33-48 (Jan. 2000). |

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office  LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Attorney Docket Number: 9099-4	Serial No. 10/005,889
		Applicants: Robert D. Black et al.	
		Filing Date: November 7, 2001	Group: 1641
	289.	Zonios, et al., <i>Diffuse reflectance spectroscopy of human adenomatous colon polyps in vivo</i> , Applied Optics, November 1999, Vol. 1; 38 (31), pp. 6628-6637	
	290.	Zuckier et al., <i>Remotely Pollable Geiger-Muller Detector for Continuous Monitoring of Iodine-131 Therapy Patients</i> , J. of Nuclear Med., Vol. 39, No. 9, pp. 1558-1562 (9/98).	

EXAMINER _____

DATE CONSIDERED _____

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.